

GRAIN
GROWERS'
GUIDE

2
1918

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THE GRAIN GROWERS' GUIDE

Organization · Education · Co-operation

Winnipeg Man.

July 3, 1918

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100% SEPARATION CLOSELY APPROACHED

100% SEPARATION is our aim in Sawyer-Massey Threshers, and is closely approached. Sawyer-Massey Threshers are built on scientifically correct mechanical principles. Their construction is based on the knowledge that the Sawyer-Massey Company has gained in more than eighty years of building firm machines for Canadian farmers.

The 13 and 16-bar cylinders of these separators and ample grate surface insure perfect separation and to take care of the heaviest capacity load. The teeth strip the grain from the head without cracking it. Concaves can be adjusted easily, *while the machine is working*, to suit the kind and condition of grain being threshed. Once set they stay put.

Simplicity of operation, built-in strength, and freedom from vibration insure long life, round out the high efficiency of Sawyer-Massey Separators.

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THE GRAIN GROWERS' GUIDE

"Equal Rights to All and Special Privileges to None"
A Weekly Journal for Progressive Farmers

Published under the auspices and employed as the official organ of the Manitoba Grain Growers' Association, the Saskatchewan Grain Growers' Association and the United Farmers of Alberta.



The Guide is ably edited and controlled by the organized farmers — actively independent and not one dollar of political, capitalistic, or special interest money is invested in it.

GEORGE F. CHIPMAN, Editor and Manager
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THE GUIDE POST



The military authorities have issued a statement regarding the operation of the Military Service Act of 1917. It appears on page 4 of this issue and contains the regulations regarding the calling of men 19 and 20 years of age, harvest leave, leave of absence on account of extreme hardship, and procedure to obtain leave of absence. This statement should be read by everyone, especially those who have been left short handed owing to the operations of the act.

The International Farm Congress and Soil Products Exposition will be held in Kansas City, Missouri, from October 16 to 26. The information that has come to hand to date regarding this big world's fair for farmers is summarized on page 18. The event promises to equal or eclipse any former exposition. A considerable number of farmers have written to The Guide from time to time asking for information regarding the International. This indicates that Western Canada will be well represented at the fair this year. The Guide will keep its readers fully informed of the progress that is being made in preparation for the big event.

Two weeks ago we published the first installment of Professor Bracken's article on Dry Farming. Last week our Tenth Anniversary number came out and the space was all occupied by special articles. The second installment of Professor Bracken's article was, therefore held over and appears in this week's issue.

The Guide circulation has now passed

the 40,000 mark. The rapid increase in the membership of the associations has been reflected in our subscription list. Every new member should be impressed with the necessity of being a subscriber to the organized farmers' own paper. The anniversary number alone furnishes a liberal education in the history, achievements and aims of the farmers' organized activities.

The Saskatchewan S.S.A. membership has now reached the splendid total of over 40,000. About 100 locals have been formed since January 1 of this year. The campaigns are going splendidly. New members are signing up rapidly and new clubs being formed almost every day. Things are on the move in Saskatchewan.

The Guide held its annual picnic on Wednesday of last week. The place selected was Salskirk, where a natural elm grove of great beauty, accessible from Winnipeg by electric cars serves as an ideal picnic ground. The day was a perfect one. A program of sports, including games and races, was thoroughly enjoyed. Like all such annual events that are being held these days, however, the absence of some who have attended in the past served to bring home to us the drain on our young manhood which the war is making.

Domestic Day falling on Monday of this week and being therefore a holiday, it was necessary to close the forms of this issue on Saturday. For this reason the market reports are incomplete, as the weekly market reports do not reach The Guide office until Monday.

I've Forgotten!

Sometimes you forget the name of some advertiser to whom you were going to write. If it's something we should know, write us and we will try and give you the information. Our business is to know.

Put It Up to the Men Who Know

The Advertising Service Department of The Guide is at the free disposal of its readers in the following ways: To furnish the name and address of any advertiser or any other firm with whom you wish to communicate; to have any advertiser or group of firms place his or their literature in your hands without other cost than writing us asking that this be done; to tell you where you can get repairs for any machine you are using; to give you the names and addresses of, or to see that you are supplied with information from, all firms in any line or lines in which you may be interested. In writing us, please write your name and address plainly and state definitely and clearly exactly what you want us to do. Many subscribers do not get replies to their letters because they do not sign their names. Address your letter to

Advertising Service Department

The Grain Growers' Guide, Winnipeg, Man.

Who will
Harvest Your
Crop? You or
Gophers?

Now you have sown the seed and the crop is growing, destroy the Gophers with

"GETSEMAIL"

A Gopher destroyed is a Bushel of Wheat Saved

"GETSEMAIL" is the Grain growers' own Gopher Poison; not made for profit but made to kill Gophers.

Favorable reports are coming in from many quarters saying "GETSEMAIL" is giving excellent results.

For instance, after testing "GETSEMAIL" and another well-known poison, distributed by the municipality, one farmer returned two packets of the other poison and exchanged them for "GETSEMAIL."

From another point, the local secretary reports better results from "GETSEMAIL" than any other poison.

Buy through your local secretary from

The Saskatchewan Grain Growers' Association

Farmers' Building, Regina.

Pull Three Plows 7 inches
Deep at Low Cost With a
Hart-Parr Tractor

Easy for boys or "green hands" to operate. A sturdy bedstead-like tractor that gives the most economical power. Twin-cylinder, water-cooled engine is mounted on one-piece cast-steel frame. Automatic lubricating system. S.E.P. and Flynt roller bearings. New Gray Hercules thrust shafts 750 to get more power from Kerosene—let us sell you about this important feature.

HART-PARR OF CANADA LTD.

Winnipeg, Saskatoon, Regina, Calgary

Buy It NOW!

We are sorry to inform our customers that our 1917 supply will be very limited in practically all lines. This is due to severe frosts on May 23 and 24. We will use this space during the season to inform our customers as to the supply, etc., and if our customers will look up this space before ordering, they will be able to avoid disappointment and at the same time assist us.

We are at present booked up all the Strawberries, Raspberries, Gooseberries and Apples that we can possibly supply.

BE SURE TO WATCH THIS SPACE

CO-OPERATIVE FRUIT
GROWERS

PENTICTON, B.C.

Buy Fruit by MAIL
SAVE MONEY

Apples, peaches, plums, cherries, etc. picked, packed and expressed direct to you by the grower — tree-ripened, every piece guaranteed, sold at the growers' price — no broker, wholesaler or retailer profits. It's sure too easy to get full particulars now.

Send for our free booklet:

HOW TO BUY FRUIT

and how to grow it

— write tonight

THE MAIL ORDER

HOUSE OF THE

OKANAGAN

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CO-OPERATIVE

ORCHARDS CO.

PENTICTON, B.C.



PUBLIC NOTICE

Military Service Act, 1917.

**Men 19 and 20 Years of Age.
Harvest Leave.**

**Leave of Absence on Ground of Extreme Hardship.
Procedure to obtain Leave of Absence.**

Men Nineteen and Twenty Years of Age.

It has come to the attention of the Government that there is a widespread impression that young men of nineteen years, and those who become twenty since October 13, 1917, as well as those who may become nineteen from time to time and who have been or will be called upon to register under the Military Service Act, are to be immediately called to the colours.

This impression is quite incorrect. No date has yet been fixed for calling upon such men to go report for duty, nor has the question been brought before the Cabinet for decision. In view of the need of labour on the farm, it is most unlikely that consideration will be given to the matter until after the harvest is over, although of course the Government's action must be determined primarily by the military situation.

There is no further obligation incumbent upon young men of the ages above mentioned who have registered or who do so hereafter, until they receive notice from the Registrars.

Harvest Leave.

Some enquiries have been received as to the possibility of granting harvest leave to such troops as may be in the country at that time. No definite assurance can be given on this point as advantage must be taken of ships as they become available. On the other hand, harvest leave will be given if at all possible.

Leave of Absence on Grounds of Extreme Hardship.

It is desired that the Regulations respecting leave of absence in cases of hardship should be widely known and fully understood. Such leave will be granted in two cases:— (a) where extreme hardship arises by reason of the fact that the man concerned is either the only son capable of earning a livelihood, of a father killed or disabled on service or presently in service overseas, or in training for such service, or under treatment after returning from overseas; or the only remaining of two or more brothers capable of earning a livelihood (the other brother or brothers having been killed or disabled on service, or being presently in service overseas, or in training for overseas or under treatment after his or their return from overseas); brothers married before 4th August, 1914, living in separate establishments and having a child or children not to be counted, in determining the fact that the man is the "only" remaining son or brother; (b) where extreme hardship arises by reason of exceptional circumstances such as the fact that the man concerned is the sole support of a widowed mother, an invalid father or other helpless dependents.

It is to be noted that in all these cases the governing factor is not hardship, loss or suffering to the individual concerned, but to others, that is, members of his family or those depending upon him.

Procedure to obtain leave of absence.

A simple system for dealing with these cases has been adopted. Forms of application have been supplied to every Depot Battalion and an officer of each battalion has been detailed whose duty it is to give them immediate attention. The man concerned should on reporting to his unit state that he desires to apply for leave of absence on one or more of the grounds mentioned and his application form will then be filled out and forwarded to Militia Headquarters, Ottawa. In the meantime, if the case appears meritorious, the man will be given provisional leave of absence for thirty days so that he may return home and continue his civil occupation while his case is being finally disposed of.

ISSUED BY DEPARTMENT OF MILITIA AND DEFENCE,
DEPARTMENT OF JUSTICE.

Public Cold Storage

By Wilfrid Thompson

THE first public cold storage warehouse, newly built, solely owned and controlled by the shareholders and patrons on the co-operative plan, was put in operation in Saskatoon recently by the Saskatchewan Co-operative Creameries, Limited. While the plant has not been officially opened the demand has been so insistent from merchants, farmers and the general public for the service to be started that it was deemed advisable to get some of the rooms ready as quickly as possible, and these are now being rapidly filled with eggs, butter, meats, vegetables and farm produce.

The refrigeration machinery has been tested, and all piping and insulation inspected for leaks and defects. Henry Garvin, superintendent of construction, is highly pleased with the results, and experts who have informally inspected the plant declare it to be the finest equipped system in Canada.

The building is a solid reinforced steel concrete and brick structure, comprising 206,000 cubic feet of storage space. On the main floor is the shipping room, freight elevators of 3,000 pounds capacity and platform scales of 2,500 pounds capacity.

In view of both passenger and freight entrances are the gauge clock indicators by which the engineer or staff can tell the degree of operation going on in every part of the building without visiting the engine room.

At the main loading entrances and extending into the chilling rooms are meat rail tracks. The meat rail tracks in the chilling rooms have storage capacity of 500 beef carcasses. Other rooms on the main floor are specially prepared for eggs, butter and poultry, and also for fruits and vegetables.

On the upper story of the building are general storage rooms, and extra office space. One large room is especially lighted and designed for the cutting, printing, sampling and grading of butter. The provincial government butter inspector and grader will have his headquarters in this room.

Another similarly designed and fully lighted room is the egg handling and grading room. The Dominion government egg inspector and grader, with the candling and grading staff will have their headquarters in this section.

In the basement are also several separate rooms from 7,500 to 14,000 cubic feet capacity for storage of eggs, poultry, fruits and vegetables.

Day and Night Service

The engine and machinery rooms are all in the basement. The electric current is supplied by the City of Saskatoon. Here are refrigerating machines driven by two 50 horse-power electric motors, either or both of which are equal to keeping up a continuous day and night refrigeration from 40 degrees normal to 50 degrees below zero. By a direct expansion system a vacuum pressure of 50 pounds to the square inch on a 24-hour basis is made possible by the machinery system used. The engines can operate to produce a cooling and freezing temperature at the rate of 30 degrees per hour down to 50 below zero.

All storage rooms are protected by double press contact spring doors, so that perfect cooling insulation is secured.

The perfect cooling insulation produced by the outside walls of the building is due to the following construction: Brick 13 inches; asphalt, one inch; cork three inches; asphalt one inch, and cement plaster half-inch, all in even layers of insulation.

The public storage rates for the Saskatoon cold storage plant have been officially approved by the Dominion government through the office of the dairy and cold storage commissioner. Those interested in getting the rates may obtain same from the government direct or from the Saskatoon office. Storage rates and temperatures are quoted for 30 different classes of perishable food products.

Eggs may be kept for six months for 75 cents per 30 dozen case, or for one month 15 cents a case.

Meats, poultry and fish are kept for the low price of one-third of a cent per pound, or at the rate of 30 cents per 100 pounds over one month.

The Grain Growers' Guide

Winnipeg, Wednesday, July 3, 1918

Canada

The Dominion of Canada passed its fifty-first birthday on Monday. For the past three years, this national anniversary has had a greater significance to Canadians than it ever had before. Our part in a war that is being fought for the sake of freedom—a part that has been waged from the very beginning of the world's struggle against the tyranny of Germany—gives new meaning to Canada's claim of nationhood. Physical qualifications do not make a nation any more than stature alone makes the man. In the past, our assertions of greatness have been expressed too often in terms of acres and dollars and cents and railway mileage. Today, without asserting claims of any kind, Canada is regarded in the eyes of the world as a nation of character as well as a region of vast physical resources. About the brave deeds of Canada's soldiers overseas, performed in behalf of humanity and not in the lust of military greed, there has been crystallized a new and well-defined Canadian national spirit. Sacrifices and deep pride in the achievements of Canada abroad have formed invisible but mighty bonds of national sympathy throughout this Dominion. The strength of this growing and developing unity of spirit will give new vigor and purpose to Canada when the war has been won, and peace has been declared. Looking forward to those days of peace, with the cause of human liberty re-established, the civilian mind of Canada enjoys at the thought of discharging the sword for the instruments of industry and art. In the meantime, and on this anniversary occasion, let the people of the Dominion of Canada take fresh inspiration from the words which have been their silent text and motto in this war: "the things which are not seen are eternal."

The Austrian Defeat

"Keep your eye on Austria-Hungary" is a sound axiom of the war, wrote A. G. Gardiner in 1914, in *The War Lords*. "There is the breach in the German fortress. The shortest way to Berlin is the longest. It is not by the front door of the Rhine, but by the back door of the Danube, for that door is very vulnerable. It might open at a knock. It might open without a knock."

The Italian armies supported by French and British troops last week partially opened that door through Austria-Hungary by their military successes along the Piave River. Following closely upon the revolutionary disturbances in Vienna, the great Italian victory in which 285,000 Austrians were reported to have been lost, may be regarded both from a military and a political point of view, as one of the most important events of the war. The military significance of the recent engagement along the Piave is contained in the fact that German troops and German leadership were absent. Austria was either urged or permitted to enter upon her vain attempt at an offensive against Italy, and as the military expert of the *New York Evening Post* observes: "Experience of nearly four years has shown beyond question that the Austrians cannot be expected to go it alone." Why was the weak ally of Germany allowed to undertake, alone, "the most ambitious enterprise of the war, an assault on a front of a hundred miles?" Either Germany was unable to spare troops from the western front where another powerful offensive is believed to be under preparation, or for political reasons the Kaiser's general staff thought it advisable that Austria should be given a thorough immersion

in blood. It is quite possible too that the Central Powers entirely underestimated the strength of the rejuvenated Italian armies. In any case, the failure of the Austrian offensive indicated a favorable military situation for the allied armies under the command of General Foch.

The political importance of the Austrian defeat lies in the circumstance that it came at a time when Germany, according to the best unofficial opinion of the United States and Great Britain, was about to combine a shrewd policy of diplomatic penetration with military tactics. In order to weaken the military strength of their enemies, and if possible divide them with dissension, it is believed that Germany was planning to submit proposals of peace which would offer a settlement of the war on the basis of the complete evacuation of France and the re-instatement of Belgium on the west, and on the east of the Brest-Litovsk and Roumanian treaties which give Germany a dangerous hold upon the whole Russian territory and its outlets to India and China. Such a peace proposal would be calculated to play one section of the Allies against the other, and as up to the present time, no well-constructed political alliance has been formed amongst the principal allied nations, Germany's calculation in this regard, might not prove to be very inaccurate. At the moment, President Wilson's expressed attitude of tolerance and non-interference toward Russia, is not entirely shared by strong elements of opinion in France and England, which believe that a new military line should be established immediately in Russia, even to the extent of employing Japan, so that Germany would be forced to withdraw troops from the west front. Kerensky's recent visit to the United States and Great Britain has seemed to add strength to the claims for interference in Russia. The whole political relationship of the Allied nations to Russia, therefore, would appear to be most uncertain and unsettled.

Had Austria-Hungary been able to make the same headway over the Venetian plains, that Germany has made in France during the past three months, the prospect for a strong political offensive against the Allies would have been favorable to the Central Powers. The defeat of Austria, however, has greatly changed the psychological situation which Germany hoped to capitalize to the very utmost. It remains to be seen whether or not the next German offensive on the west front will be able to regain some of the political advantage that was lost to her last week. In any event, it will take much stimulating to bolster up Austria. Bismarck once likened the Austrian Empire to a ramshackle house built with bad bricks, and held together only by means of German cement. The supply of German cement has been heavily drawn upon in Finland, Poland, the Ukraine and Roumania. There is not much left to uphold the Austrian structure.

Political Position

On page 29 of this week's issue of *The Guide*, a special contribution entitled "What Protectionists Want," is published over the initial letters, A.B.C. We hope that our readers will pay careful attention to this letter which appears from the pen of one who has been a friend of long standing to the organized grain growers, and whose name is known throughout Canada as being actively connected with programs of economic and social reform. His letter is an appeal to the organized farmers of the West, written in

the writer's own words, "by making Union government possible last December, put themselves into an extraordinarily strong political position in Canada." It is an appeal to the grain growers to prevent the protectionist forces in Canada from regaining an exclusive hold on the flagstaff, from which the good old Union Jack was flapped so vigorously in 1911. Our contributor sees a grave danger of such a possibility in what he describes as "the recent tendencies to weaken at the conference of the United Farmers of Ontario, in Toronto, and through the memorandum of the United Farmers of Alberta to the government." "Let the organized farmers make no mistake," he writes; "nothing could please the Tory press of the East more than to see the western farmers break with the Union government over conscription." Recognizing that the present government has made mistakes, he says, "but the government's mistakes make the reasons all the stronger why the cool heads of the organized farmers' movement should not be carried away into rendering the forward position they have won for themselves in the public opinion of Canada, as they certainly would, if they were made to appear to be weakening on a war measure, the war measure, the Military Service Act."

There is doubtless much truth in A.B.C.'s statement that the protectionist forces would be quick to seize an opportunity to rally their supporters again to the false, loyalty cry, which was used against the West seven years ago. The *Guide* is of the opinion, however, that A.B.C. is unnecessarily agitated over the possibility of the organized farmers of the West weakening in their attitude towards the Military Service Act, which they expressed so positively last December. The most careful reading of the Alberta memorandum which was recently submitted to the government by H. W. Wood, does not suggest in the slightest degree anything but the most earnest desire to share in the responsibilities of the war, as they are borne by this country. True, the Alberta memorandum impressed very strongly upon the government the inevitable effect of "further measures" such as the recent amendments to the M.S.A., upon food production. They indicated clearly that the output of foodstuffs from Alberta could not be maintained unless sufficient farmers were left on the land. They did so without expressing any prejudicial whatsoever. They simply stated facts for the benefit of the government, with the implication that the authorities at Ottawa would be well advised if they would take the trouble to keep people informed, as far as possible, of the actual condition of military affairs in Europe. In speaking thus frankly to the government, the Alberta farmers deserve approval, for if there is one thing more than another in which the Union government has been remiss, it has been in its stupid policy of isolating itself from public opinion, from the very day it was returned to power. There has not been sufficient definite educational work pertaining to the facts of the war, on the part of the government. When that condition exists in a democratic country, only one thing can happen; the people will undertake to tell the government its faults.

No, the whole people of the West, farmers and town people, are as determined to see the war through to a finish as any group of protectionists that ever flourished on a tariff. They stand exactly where they did last December, devoted to the country and to the cause at stake, and not to anything else.

Politics and Protection

In the May issue of the Canadian Magazine is the first installment of the personal and political reminiscences by Sir John Willison, for many years editor of the Toronto Globe and later for some years editor of the Toronto News. Sir John has had a long connection with the political affairs of the Dominion and has undoubtedly known the inner workings of both political parties. It is given to few men to be editor of the chief Liberal organ and later, editor of the leading Conservative organ. Sir John's reminiscences make delightful reading and will entertain a wide circle of readers. He discusses in his first article how nearly the Tory party came to being free traders and the Grits to being protectionists. It is best to let him tell it in his own words. The following is the extract from Sir John's article:

For his resistance to protection Mr. MacKenzie (Hon. Alexander MacKenzie, Premier of Canada), gets more praise than he deserves. He was ready to raise the duties from seventeen and one-half to twenty per cent. So were Honorable George Brown and Sir Richard Cartwright and Honorable Edward Blake, and other leading Liberals of Ontario and Quebec. Principle does not concern itself with percentages. If Honorable A. G. Jones and the near-sighted, contumacious, anxious Liberal group from the Eastern Provinces who were possessed by the delusion that they could not carry their constituencies if duties were increased, had not gone into revolt against Mr. MacKenzie, he would have raised duties to twenty per cent., and once committed in Parliament and on the platform to the defence of higher customs taxation, who can be certain that the Canadian Liberal party would not have become entrenched in the fortress of protection. There is reason to believe that if the MacKenzie Government had committed itself to higher duties the Conservative Opposition would have adhered to low tariff. The common story is that when Sir Richard Cartwright rose to deliver the budget speech of 1879, it was not known if he would declare

for or against higher duties, while Sir Charles Tupper, who was to follow, knew only that he would not agree with Cartwright.

In a speech at St. Mary's in 1893, Mr. D'Alton McCarthy said: "There is no doubt in the world that we were out of power and by going in for the National Policy and taking the wind out of Mr. MacKenzie's sails we got into power. We became identified with the protection policy, but if Mr. MacKenzie had adopted the protective policy we should have been free-traders." Mr. W. F. MacLean, M.P., whose father was one of the most convincing writers of protectionist literature at this period, had said that Sir John Macdonald was "timid unto death of protection," and "had to be bullied into it, led into it, committed to it by others." Mr. Goldwin Smith declares that when he warned Sir John that "Protection would never do for Canada," he was assured, "You need not fear that I am going to get into that hole." One does not understand how Mr. Goldwin Smith could give any such warning, for he was opposing the MacKenzie Government, putting Honorable Edward Blake as the recognized believer in a more liberal commercial policy, and cultivating close personal and political relations with the Conservative leaders. In a letter to The Toronto News in 1901, Mr. Nicholas Flood Davis said:—

"Now as regards Sir John Macdonald's opinion, he is on record quite early in his career on the side of protection. On the other hand, in 1875, I was in The Mail office talking to the late Mr. Charles Belford, who was then editor under Mr. Patterson, who was manager and editor-in-chief, when Sir John Macdonald entered and said: 'Belford, what do you mean by that article on protection? I'm not a protectionist.' Belford replied: 'It doesn't commit you or the paper. It is marked "communicated." But that policy is taking hold of the public mind, and that is the question on which you will have to go to the country.' The policy of protection was preached on platforms and advocated in The Mail before Sir John Macdonald took it up heartily. He had undoubtedly gone over to free trade with the Disraelian Conservatives, and was fully aware what a bold belief in it had taken of the public mind. He, however, took to studying protectionist books and when he began to advocate protection he brought to bear on its popularization his fine

power of illustration; sometimes homely, sometimes whimsical, always effective. It is the good fortune of the leading statesmen to get credit not only for the work, but the idea, whereas they are never the first to conceive the idea."

What Mr. Davis, Mr. MacLean and Mr. McCarthy have said Mr. F. C. Patterson, who was the editor of The Mail during that period, often admitted and emphasized. But if it was the fortune of Mr. MacKenzie to take the wrong turning, this was not so much through devotion to low tariff as through submission to a wing of the Liberal party which by high concern for principle or through zeal to save itself gave the whole position to the enemy. After the turnover in 1896 the common injunction among Liberals seems to remember "MacKenzie's mistakes."

Sir John's statement has been corroborated by others who knew the political history of those days. Both parties wanted to be in power and the majority of the politicians were willing to do anything to get into office. The Liberal party came into power in 1896 and very quickly became as ardent supporters of protection as had been the Conservatives. From that time until the present protectionism has held the reins and driven both parties without discrimination. It is interesting to know however, that there was once a time when the politicians in the Conservative party were willing to jump either way on the tariff so long as they thought it would catch enough votes to bring them into power.

Ought not so vital an industry as coal-mining be nationalized? When the government takes over the railways, it will not be able to risk a fuel famine. Government ownership of railways should be accompanied by a similar control of coal mines. Incidentally then, the citizens of the country may be able to secure a winter's supply of coal from an agent without having to relate their life's history with each purchase.



THE BACK DOOR TO GERMANY
The Allies: "Make Gott, Kaddy! rescue our Ally."

'Square Bill

By Holman F. Day

SQUARE BILL'S office was up over Brickett's general store, and a rickety, outside stairway led to it. The old tin sign between the dusty front windows read: "William Gray, Public Pension Vouchers Examined."

A frequent patron of the coffee grinds, the store beneath was obligate to conversation of 'Square Bill's' second clients, and the aroma of spices wafted up through the door to mingle with the somewhat stale fragrance of his black T. D.

He forgot one of these snooty-headed at county court once, and the lawyers put ribbons and hung it a shandeler in the attorneys' with a card reading: "Erected in memory of Bill Gray."

Afterward 'Square Bill' patinated for that pipe when he went court, for its "stoutness," after months of careful smooching, up to him. But he never looked as high as the shandeler.

Folks who knew 'Square Bill' well dared that he never had looked high in life, either. Men who understood such things said that he knew how to match any judge on the side bench. But at 73 he was still king up in his little office over Brickett's store, smoking his pipe and reading his law books with their shiny, red-smoothed bindings.

Adjudicators of the "good and bad," who came hanging up his stairs, for fight, frequently clasped under a jovial word and smile, declared that he was "too lazy to put a case through court," and went steaming to lawyer who would scrip. Therefore a court record did not have a long list of cases indexed by 'Square Gray.' But a lot of folks wiping misty eyes and folks who usually kept still about matters—could have recited a careful roll of cases he had listened to, smiled over and said "Pooh!" to, ending the shamed or consoled parties with a flex in the ear, about the foolishness of going to law.

"No, there isn't much money in that kind of practice," 'Square Bill' used to mutter. "But I never ste'boyed a bulldog into a fight yet, nor rubbed a town's ears, nor drew a writ when it was better to draw receipts."

And hence the label hitched to 'Square Bill' by his townsfolk: "Good adviser, but ain't no lawyer."

Well, there in the office one afternoon sat the 'square,' tipped back in his chair, his angular knees rocked against the table's edge and supporting a law book. The wintery fall sunshine threading through the cobwebs in the window fell upon his shaggy, threadbare T and supplied the only warmth in the musty, raw atmosphere of the room. He held his nose as he read. His beardless face rose out of a single, Kyle silk neck stock. The woman Valerius said that 'Square Bill' was a "moderate" to catch up with the styles. But the women always were inclined to make fun of him as a slow poke in general, and told humorous stories of the way he kept "old back hall" in the little rooms adjoining his office.

No sound in the 'square's' place that afternoon except the dory humming of a chilled fly in a corner of the pane and the flap of a turning book leaf.

Mrs. Micajah Dunham had run the butter rope through the hole in the gnarled hitching post in front of the store and was now climbing stiffly up the outside stairs. A bonnet, trimmed with dust-spotted imitations of grapes, seemed to pinch her face, and her narrow shoulders also appeared to be stretched together under her shawl.

'Square Bill' did not get up when she came into the office, but deferentially laid his pipe in the tin box on the table, put his hat beside it and pushed up his spectacles. She sat down in a wooden armchair, well to the edge on account of the dust on which her housewife's eyes glared with disfavor.

"'Square Bill,'" she said, "I've

come to consult you legally and I've brought the dockments." She suddenly snapped herself up, crossed the room and laid on his open book a sheet of indely ruled pink paper, on which were pasted brains cut out of red and blue tissues.

"That's almost the first to which I really was knowin'," she said, "though I had a glimmer of an idea for some time. Oh, I tell you, it ain't come on all its own, this thing ain't!"

"What is this?" inquired the notary, lifting it gingerly and pulling his spectacles from forehead to nose. There were some lines of writing, and he read

Jan. 22. Hitched and took her to her boarding place when it snowed.

Jan. 24. Hitched before school and went after her.

The notary skipped into February, after noting a general similarity in succeeding January entries.

Feb. 10. Suspect he is making a Valentine.

Feb. 12. Caught him at it and took Valentine.

"This is it, eh?" he inquired, tapping the gaudily decorated sheet on the table.

"That's it!" she snapped. "Besides all that, it's been a continual peddlin' out to her all this last summer term of



Out for a sail on Pine Lake, Alberta.

them aloud in dry, legal monotone, the woman greeting the sentiments with scornful sniffers.

For them that love, the world is bright, And when it's bright it is a sign That some one's eyes must shed the light.

Oh, darling, be my Valentine!

"I caught Mr. Dunham writing that tormented scrawl out of a book at the reekery in the best room," she said; "and that was as long ago as last February. And I took it away from him. But I reckon he slyed 'round somewhere and made another one. He's been dead set and possessed by the Old Harry for months. 'Square Bill, till I'm plumb out with him and I can't stand it no longer. Now you can see by this what I've had to put up with."

She unfolded a long roll composed of many sheets of note paper pasted together, and he read in the same calm voice her penciled entries:

Jan. 17. He carried paper bag of Northern Spices to schoolhouse door.

Jan. 18. He took broken candy to door.

Jan. 20. He visited school.

apples and candy and bouquets and fetterols. By twainin' a little I can see that schoolhouse door right from my but'ry window, and there it all is in that paper, chalked right up to date against him. I stood it the spring term and the summer term without raising particular Ebenezer, but when he started in again this term I just—"

"I understand, do I," he interrupted, shaking the long sheet at her gently. "That this record of devotion to a certain schoolhouse door means that 'Caje'—"

"It means," she cried, "that that miserable, old, soft-headed fool of a husband of mine has fell in love with that young teacher-bird of a schoolmarm in our deestrick and has acted out till I'm distracted. I can't do nothin' with him, 'Square. He just grunts and growls and sneers out o' the house when I go at him. This is the end. Under stand! It's the wind-up! There's the dockments. Now I want a bill of divorce, and you needn't try to argue me out of it, cause they say you try to ov'rysee that comes to you for law. My mind is set on Pisky itself." She

brought her work-stained hand down on the chair rail. "This thing ain't the fit of a minute. 'Square Bill, it's been a-comin' on and a-comin' on. I ain't a woman that switches and runs and runs away at the first boo—but when I do get started, you nor no one else can't stop me."

The notary peered at her over his spectacles during this declamation.

"I'm not going to have a fight with you, Esther," he said, mildly, smiling into her excited and hostile eyes. "But you do surprise me about 'Caje. I always thought he was a steady going as a stone boat. There isn't insanity in his family, is there?"

"Insanity! Out's foot!" she retorted, angrily. "The fool jest gone and fell in love, that's all."

"You and 'Caje were about the first couple I recorded when I was elected town clerk," he said, leaning back in his chair. An old dog lay under the table. 'Square Bill, as he talked, began to gently scratch the old dog's back with his dangling toe, and the dog responded by gratefully lapping his tail on the floor.

"I wish the minister's tongue had been paralyzed before he ever pronounced the words," she nipped spitefully.

"Always a hard-working man. 'Caje was," the notary reminiscently went on. "At it tough and tight all the time. This—this love business hasn't taken his mind off the farm, has it?" he inquired.

"Oh, he's stowin' and fubbin' most of the time, as usual," she admitted, grudgingly. "But this ain't gettin' on to that divorce, 'Square Bill. You needn't beat the bush no—"

"Let's see!" he mused. "Poor, crazy Ben Haskell's girl, Liza, is teaching in the Dunham district, I believe. Is she as pretty as her mother was before her?"

"High-headed snippit," snorted Mrs. Dunham. "But I've took her down a peg or two. I can tell you that. I called her out to the door twice and give her an earful, and yesterday I went straight into the schoolhouse and give her her come-uppance right before her scholars. I'll show her 'tain't safe to meddle with my husband."

"What did she say?" asked the old man, with some interest.

"Cried baby and sniffled each time, and said she wasn't none to blame," the woman replied, scornfully. "but ya needn't tell me that any man is draggin' after a woman's gown tail if there ain't encouragement. 'T any rate, I've been 'round the deestrick among the families and she's goin' to be put out o' that school. How long will it take me to git my bill from Mr. Dunham?"

"Is all your hurry so that he can marry the schoolmarm or so you can ring in number two?" he inquired, with a little chuckle. Her face paled and then flushed. "I should hate to see her in your house, Esther," he said, a queer flicker of amusement in his eyes. "those young gaffers of girls aren't good housekeepers, as a rule."

"She shan't ever have a stick of my stuff," she snapped, but her voice broke and her eyes filled with tears. "I—I hadn't thought of 'Caje gittin' married ag'in," she said, uncertainly. "But I guess I see now—that—that he has been wanting to git red o' me by doin' all these things—and he used to think a sight o' me, 'Square Bill."

He looked intently into her angular face with his hard mouth lines.

"You know I'm not much of a hand to soft-soap and compliment, Esther," he said. "I knew you at school and I've watched you more or less since. You were kind of cute as a girl, with your way of spitting out what you thought, but the same tricks in kettles and old cats look different. You're ragged and browbeaten your husband all your life, and you know it!"

His tone was severe. "You could have driven 'Caje Dunham with a cotton thread and leamed him anywhere. But you used good sticks and hot pitch and a twist bit, and it jes' ayy wonder he's got skittish and balky."

Continued Next Week



The Old Fishing Hole

Dry Farming in Western Canada.



Making the Best Use of the Water in the Soil—History of Dry Farming—Summary of Dry Farming Practices.

By Prof. J. Bracken

found that "on a sandy loam, not cultivated, 683 pounds of water were transpired for each pound of dry matter of roots; on the same soil, cultivated, only 252 pounds were required. On a clay loam, not cultivated, 535 pounds of water were transpired for each pound of dry matter, whereas on the cultivated soil only 425 pounds were necessary. On a clay soil, not cultivated, 753 pounds of water were transpired for each pound of dry matter; on the cultivated soil, only 582 pounds."

The evidence of these and other investigations clearly show that the more fertile a soil is the greater yield it will produce from a given supply of moisture. This is the chief reason why dry farmers should strive to maintain the fertility of their soils. While our soils are now and rich our average rainfall will produce an average yield. As soon as they become less fertile the same amount of rain will produce a much smaller crop.

Brought Resistant Crops

Another point that the dry farmer should keep in mind is that some plants are better able to withstand drought than others. The factors that constitute resistance to drought are not all well understood but several are now quite well appreciated by dry farming investigators. For instance it is now well-known (1) that different crops require different amounts of moisture to produce a unit of dry matter; (2) that certain types of crops are able to withstand more drought than others; (3) that the growth of some classes of crops parallels the monthly distribution of moisture that they are enabled to produce more satisfactorily than other classes of crops; the growth habits of which are different; and (4) that crops which permit of intertilage may develop under smaller precipitation than those of similar type not intertilled.

Recent investigations have shown that among our commonly grown crops millet, sorghum and corn require the least moisture per unit of dry matter produced; that the legume crops, like alfalfa, peas and clovers require the most and that the grain crops—wheat, oats, barley, rye and flax are intermediate in moisture requirements.

Carefully conducted experiments have also shown that some crops will withstand drought better than others. For instance bromo grass and western rye grass are both more drought resistant than any of the other commonly used grasses. Alfalfa will withstand more drought than clovers, durum wheat more than common wheat, and summer more than oats or barley.

It is well appreciated by western farmers that annual crops yield much more than perennial ones, and that

these crops which can be sown early and that reach their greatest growth during the late stages of the rainy season, and that ripen before the dry autumn months, are the most satisfactory to grow. This is why oats, an annual crop, is more generally used as hay than the grasses which are perennial. It explains why sweet clover yields more than alfalfa and it is why the grain crops are the ones best suited to our climate.

The value of intertilled crops has long been appreciated by dry farmers. The large yields after corn and potatoes, the former particularly, are well appreciated. The difficulty has been to grow either of these crops profitably in a large way under present economic conditions. As land becomes higher in price, and labor and equipment cheaper more intensive methods will pay better than extensive ones, but at present the greater profit is probably to be found in the latter in most parts of the West.

Crops That Promise Most

The value of undetermined value that promise the most for the dry farming districts of Western Canada, and that warrant very careful trial are:—

Grain Crops.—For sale: Durum wheat, Kabanka and Pelissier; Marquis and Red Pile (best at present); Winter rye (N.D. No. 959). For feed: Spring rye (Petkus); Kinnor; Two-rowed (Hannchen or Canadian Thorpe) and naked (white hulls) barley; Early and late oats (late now generally used).

Forage Crops.—For summer pasture, sweet clover; for fall pasture, rape; for winter pasture, corn; for perennial pasture, Western rye grass, bromo grass and alfalfa; for soiling crops, alfalfa in rows; for winter feed, corn, oats, sweet clover.

Suitable Crop Management Practices

The crop management practices the dry farmer in the Canadian west should avoid are late seeding, thick seeding, shallow seeding and late harvesting. Each of these in dry seasons and in dry areas is likely to result in lessening the yield secured.

The time to sow.—The two factors that chiefly determine the best time to sow are the temperature and moisture conditions of the soil. If crops are sown too early they may be injured by late spring frosts or the seed may die before the seedling gets above ground. Aside from this danger the seeding of our hardy cereals, wheat, rye, oats and barley should be done early. If the seeding can be done early enough the moisture from the melting snow will germinate the seed, otherwise in fall or spring plowing the germination may be seriously retarded owing to lack of rain in the early spring.

The amount to sow.—This seeding is a recognized dry farming practice. In drier the district the less seed used, while the more humid the district and the shorter the growing season the greater the quantity that should be sown. Campbell recommends as little as 18 to 20 pounds of winter wheat; 2 to 25 pounds of spring wheat; 20 to 25 pounds of oats and 35 to 40 pounds of barley per acre in the dry parts of the Western States. The United States Federal Department of Agriculture recommends the following rates for Montana: Wheat one bushel; oats one to one-and-a-quarter bushels; barley, one to one-and-a-quarter bushels; flax 15 to 20 pounds. For the dry parts of Western Canada rather heavier seedings than those recommended for Montana should be used. Of course, in the more humid sections of the west much heavier seedings are necessary.

Sow into the moisture.—In dry areas the limiting factor in germination is usually moisture. Where rains usually come in the spring season the dry seeding is of relatively little importance, but in this climate very little rain falls in the early spring and if germination is to be assured seeding into the moisture is necessary. Of course, the land should be prepared in such a way that the moisture is not at too great a depth.

Use non-shattering varieties.—Very great losses frequently occur through the shelling of overripe or easily shattered seed as a result of heavy winds at harvest time. In order to lessen this danger two practices may be followed, first, use crops that do not shatter readily, and second, cut before the crop is dead ripe.

Among the wheat varieties that shatter least are the Durum types and Marquis. Durum seldom shatters even under the worst conditions while Marquis is known to be more non-shattering than any other of our commonly grown varieties.

History of Dry Farming

Most of the practices of Dry Farming are probably very old. The ancient civilizations of the Orient, the Euphrates Valley, Palestine and Egypt were developed in dry climates but chiefly in areas where artificial irrigation was

Continued on Page 21

THE practices by which the moisture stored and conserved in the soil is kept available or at least not rendered unavailable to plant roots are:—

1. By not plowing under thick layers of dense grass or other rubbish, unless time sufficient for the decay is allowed before seeding the next crop.

2. By not plowing under a heavy stubble in fall or spring unless the land is to be thoroughly compacted so that the moisture in the subsoil may rise into the furrow slice to meet the needs of the crop.

3. By seeding that in all fall or spring plowing the overturned furrow is brought firmly in contact with the subsoil, so that there may be the least possible interference with the free movement of moisture.

4. The application of manure in such a manner, at such a time and in such an amount that it will quickly decay and not interfere with the movement of soil moisture. Churned straw manure and stubble are often worse than useless until they have decayed, after which time they exert very beneficial effects on the moisture absorbing and moisture holding capacity of the soil.

Utilizing Soil Water

The soil moisture will be utilized most efficiently if three things are done: (1) The supply of available plant food kept up; (2) drought-resistant crops grown; and (3) suitable crop management practices followed.

Keep the soil rich. The chief function of the water stored in the soil is to dissolve plant food and carry it through the root hairs into the plant. The more plant food a given unit of water can carry into the plant the more efficient the water is. It has been found that on rich soils a given amount of water carries very much more plant food into a plant than does the same quantity of water on poor soils.

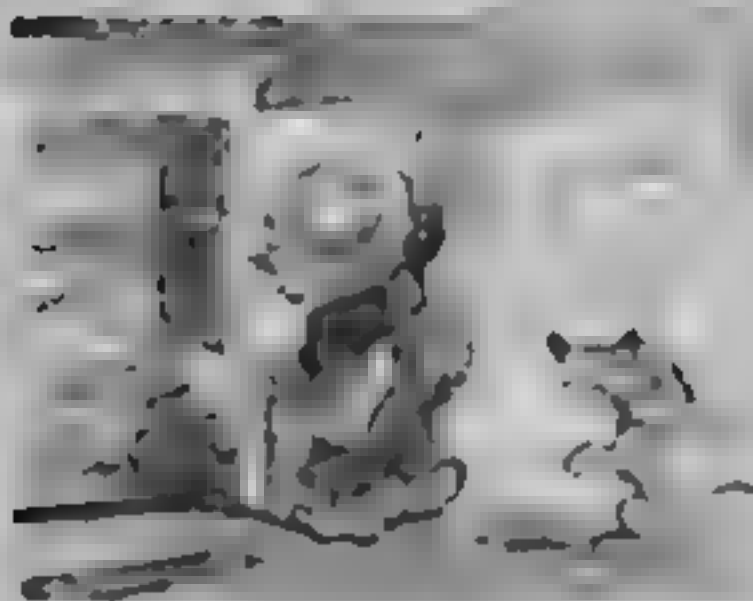
Widestoe states (1) that on a naturally fertile Utah soil 908 pounds of water were required to produce each pound of dry matter in corn. (2) that where this soil was manured only 613 pounds were required and (3) that when commercial fertilizer was added only 585 pounds was necessary to produce a pound of dry matter. Similarly he

Parliament and Patronage

Some Members favored Elimination of Patronage in Theory Only—The Spirit was willing but the Flesh was Weak—Bill Finally Passed.

By The Guide's Ottawa Correspondent

In future it is proposed to appoint
members to both the inside and outside



been good
bill, J. G.
the idea of
stand over
he asked,
the
good by
will and
would be
done, and
taken out

which is not a good way to deal with
this bill clause by clause. We have a
the more we get at the end of the road
to discuss it fully. If the bill is as
draft with I venture to say there.
Continued on page 41

United Farmers of Alberta

In some cases paying
advice as to how to

By the Secretary

[illegible]

Except for young farmers who
were astonished at the receipts
but — H. H.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Scrap Iron for Red Cross

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Saskatchewan Grain Growers

T

Growers' Association by the Secretary

J. B. Munciman, Regina, Sask.

WEDNESDAY
MAY 1916

THE SASKATCHEWAN
GRAIN GROWERS' ASSOCIATION
REGINA, SASK.

THE SASKATCHEWAN GRAIN GROWERS' ASSOCIATION

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100 PERCHERONS 100

— the Champion "LOUIS BELBON," 133178. Many and Young Stallions ways for sale, many of show-grade quality. Bookings for.

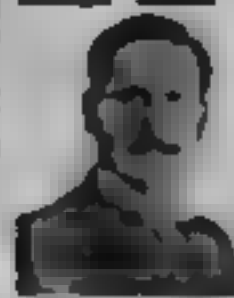
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Make your plans now to visit this "Dearest Farm in America" this Fall.
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Make up your mind now. The only way to get the best price is to order now. The only way to get the best price is to order now. The only way to get the best price is to order now.



75 cups cream
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Waste Nothing

That is the best for cream separator operations or useful methods of obtaining milk.

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Get a De Laval and save ALL your cream

Viewed from every standpoint—clean skimming, always supplying milk of superior freedom from impurities, durability, there is no other cream separator that will compare with the De Laval.

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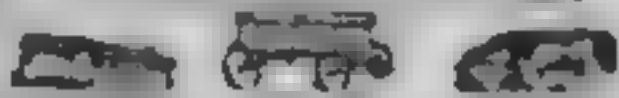
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Address: 1000 N. 10th St. St. Paul, Minn.

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From Farmers to Farmers at 10 Year Prices



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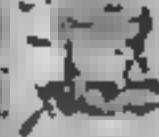
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for Farmers

Fairbanks
Farm Sales

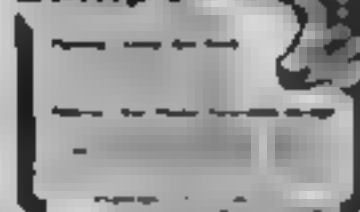
The Complete Fairbanks Map
is added



"JOINTINE"



Lump Jaw

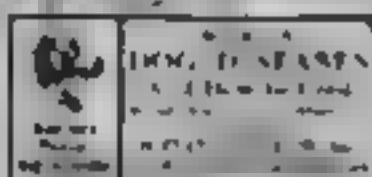


DR. WARNER'S
CURE

For all cases of
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mouth or throat.

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Made from pure Pennsylvania
Crude Oil. No waste. No
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It gives exactly what it
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Price \$1.00
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**Auto Stop
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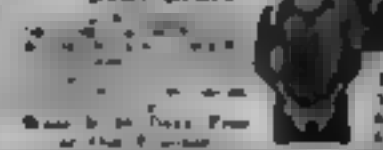
Artificial limbs are admitted
DUTY FREE. SOLDIERS
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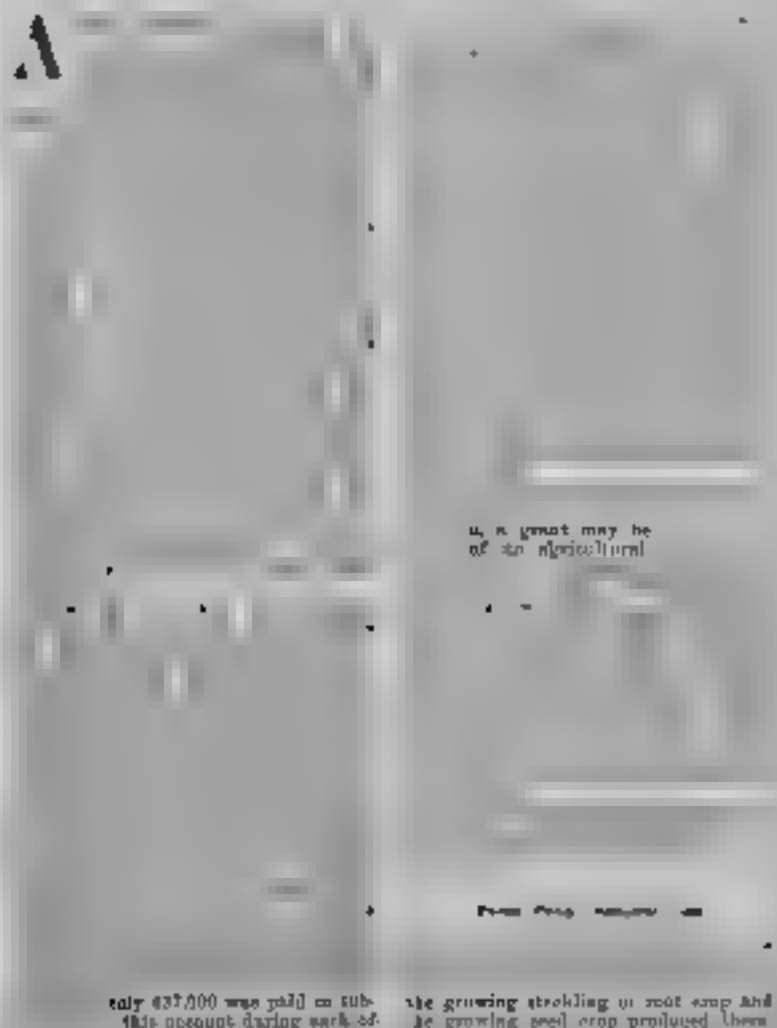
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notable being a \$100 cup for best and most artistic display of apples grown by one exhibitor

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only \$27,000 was paid on sub-
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"Bissell" Disk Harrows

The Bissell
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have a great advantage
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are made of
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The Bissell Disk Harrow is the only harrow that
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the soil and the most difficult conditions of
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the soil and the most difficult conditions of
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WOOD-SPLIT PULLEYS

Save
Gasoline



Save
Max Power

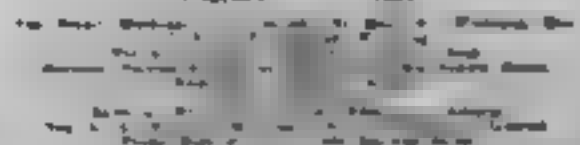
Farmers—You Can Get a Dodge Wood-Split Pulley at Once!

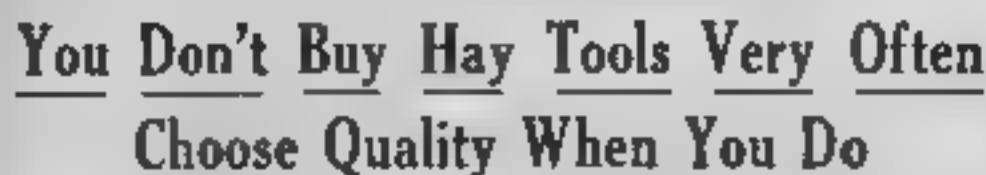
The Dodge Wood-Split Pulley carries ample stocks in sizes of
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The Dodge Wood-Split Pulley is to be recommended
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Dodge Manufacturing Co. Limited



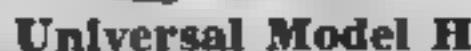


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5 1/2 Gal. MASHING TOP KNIVES, TREES AND YAKS. Weight 752 Pounds
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Page 2

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References

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Experimental Model for the 10th Edition

The following table shows the results of the analysis of variance for the effect of the type of soil on the yield of the different varieties of wheat. The data are presented in the form of a table with the following columns: Variety, Soil, and Yield.

| Variety | Soil | Yield |
|-----------|--------|-------|
| Variety 1 | Soil A | 1.2 |
| | Soil B | 1.5 |
| | Soil C | 1.8 |
| Variety 2 | Soil A | 1.5 |
| | Soil B | 1.8 |
| | Soil C | 2.1 |
| Variety 3 | Soil A | 1.8 |
| | Soil B | 2.1 |
| | Soil C | 2.4 |

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SAVES LABOR AND
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Trust work constantly. Meanwhile repairmen are constantly leaving for the front.

savings of from 10% to 30% in fuel consumption and from 30% to 80% saved in oil on a grade of Gargoyte Mobilite specified for their tractors by

caused prematurely by incorrect lubrication are burned out bearings, worn piston rings,

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call for the help
of a few

Trade of Gurgoy

would be fewer interruptions during the busy season.

in Mobiles are approved by practically every tractor manufacturer. Many of these distinctly recommend their use.

That oil is specified in the Chart of Recommendations to the right. If your tractor is not listed, write for book let containing complete Chart of Recommendations and other valuable data.

To Correctly Lubricate Your Automobile

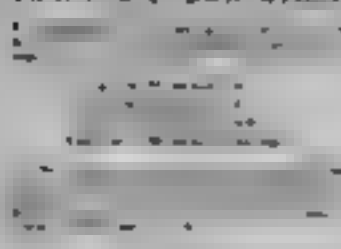
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1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

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WATERLOO BOY
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WAITE FOR DESCRIPTIVE FOLDER
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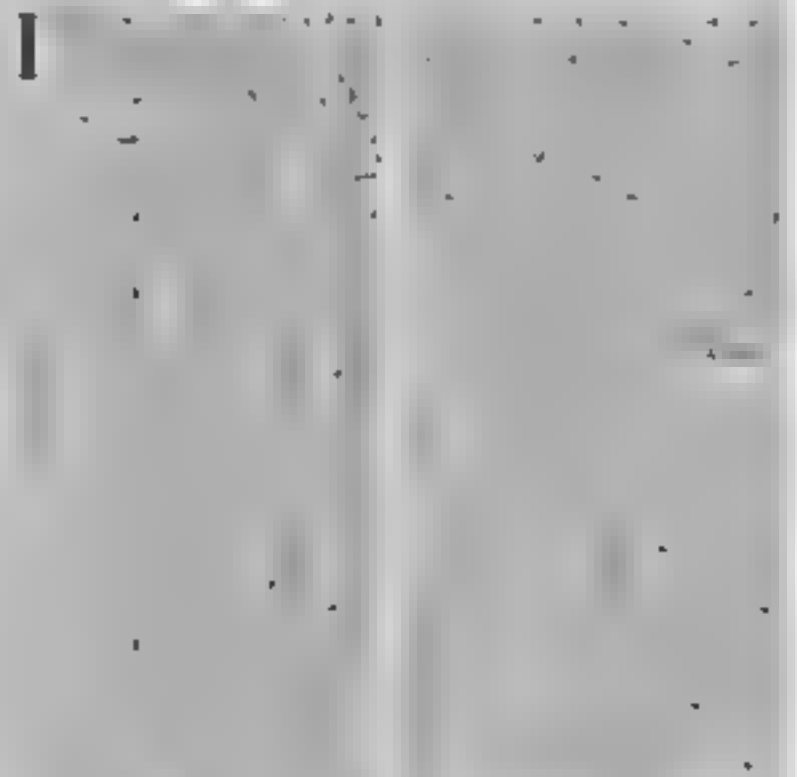
EMPIRE FINANCIERS LTD.

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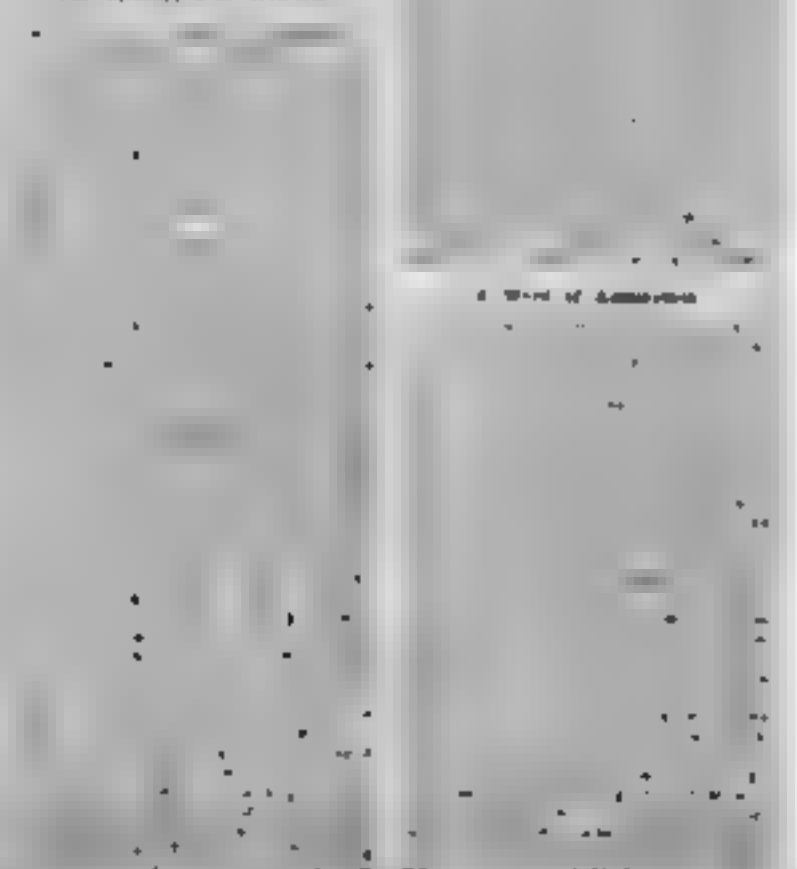
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Buy more brood sows—select registered

If you need money for any of these pur-
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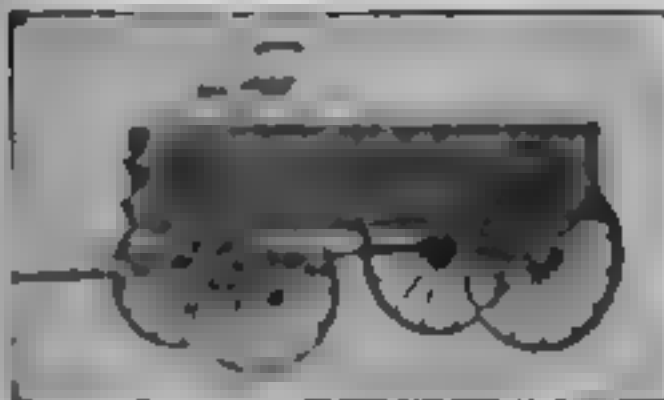
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Learnings from my First Session
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THE higher the tariff the higher the cost of living. The higher the

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"Some fine day, Bill"

I'll put on some life insurance and when I do I'll take it with you."

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by expenses. Some time ago and farmers were attacked to show that their profits

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The Power Behind Your Farm Work

A Fairbanks-Morse "Z" Engine

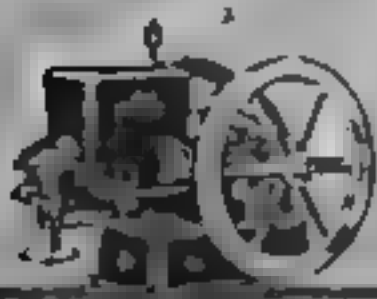
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CHICAGO, ILLINOIS

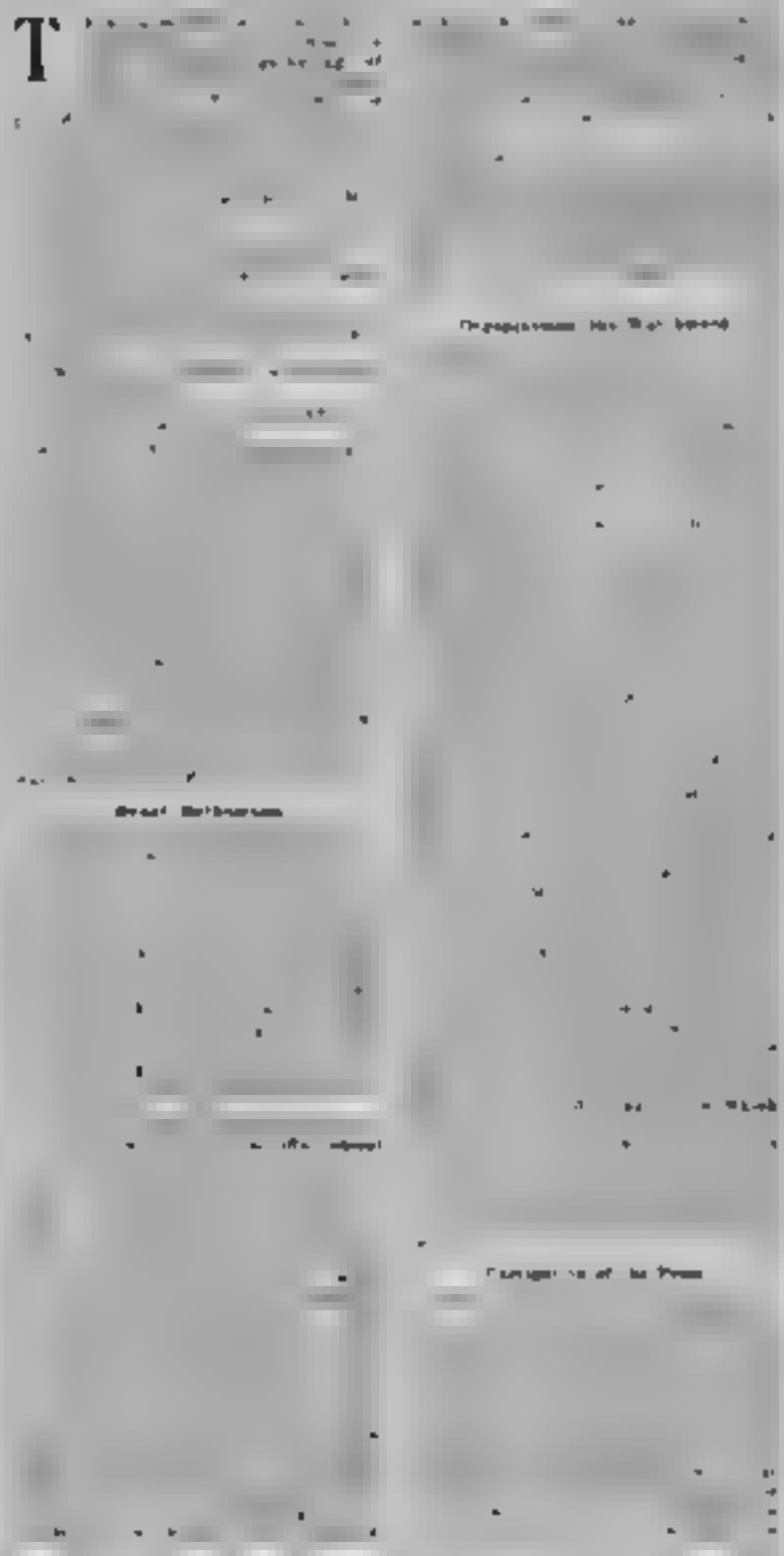
Representatives in Canada



A Fairbanks-Morse is all that separates the Power from the Advertisement

Ontario Farmers' Meeting

Impressions of the Convention held in Massey Hall, Toronto, on June 7—By Rodgers McKenney



The Meeting, conducted by the Ontario Farmers' Union



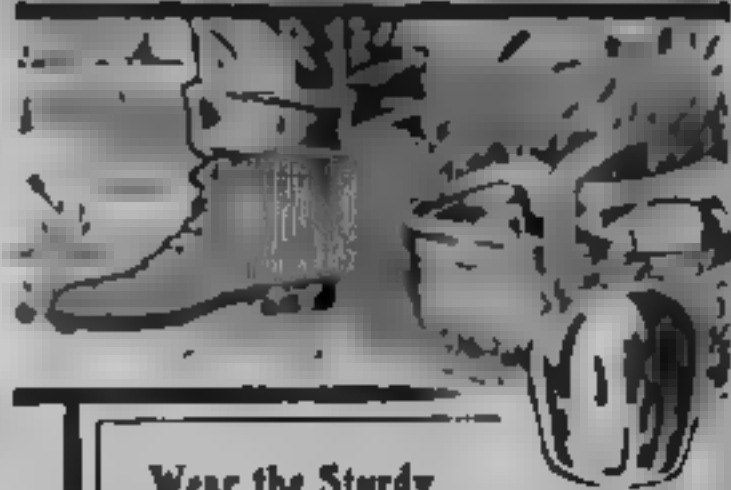
What Protectionists Want

*They would like to see the Organized Farmers Break
with the Union Government over Conscription*

4 DITTO. Could be taking place in the kitchen, plus the old boys in government possible last Decem- the brewery table.

[illegible]

In the Fields



**Wear the Sturdy
FLEET FOOT SHOES**

and enjoy the easy comfort which these economical sheets give.

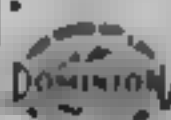
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be for work as well as for play. Staunch, sturdy styles like the "WORKMAN" and "EVERY-DAY" stand right up to any form work—yet are light and easy, and enable you to tramp the fields all day without the feet getting over-tired.

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OVER RAYS

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THE HAIL INSURANCE CO. OF LONDON, ENGLAND

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Assets, £1,000,000

ANNUAL PREMIUMS, £1,000,000

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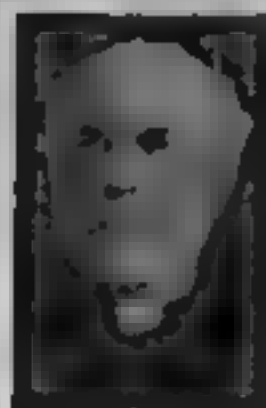
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| Age group (years) | Sex | Age | Mean serum thyroglobulin | Explained (%) | Fig. 4.2 |
|-------------------|-----|-----|--------------------------|---------------|----------|
| 15-20 | M | 17 | 1.2 | 100 | |
| 21-25 | F | 22 | 1.5 | 100 | |
| 26-30 | M | 27 | 1.8 | 100 | |
| 31-35 | F | 32 | 2.1 | 100 | |
| 36-40 | M | 37 | 2.4 | 100 | |
| 41-45 | F | 42 | 2.7 | 100 | |
| 46-50 | M | 47 | 3.0 | 100 | |
| 51-55 | F | 52 | 3.3 | 100 | |
| 56-60 | M | 57 | 3.6 | 100 | |
| 61-65 | F | 62 | 3.9 | 100 | |
| 66-70 | M | 67 | 4.2 | 100 | |
| 71-75 | F | 72 | 4.5 | 100 | |
| 76-80 | M | 77 | 4.8 | 100 | |
| 81-85 | F | 82 | 5.1 | 100 | |
| 86-90 | M | 87 | 5.4 | 100 | |
| 91-95 | F | 92 | 5.7 | 100 | |
| 96-100 | M | 97 | 6.0 | 100 | |

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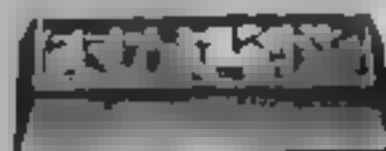
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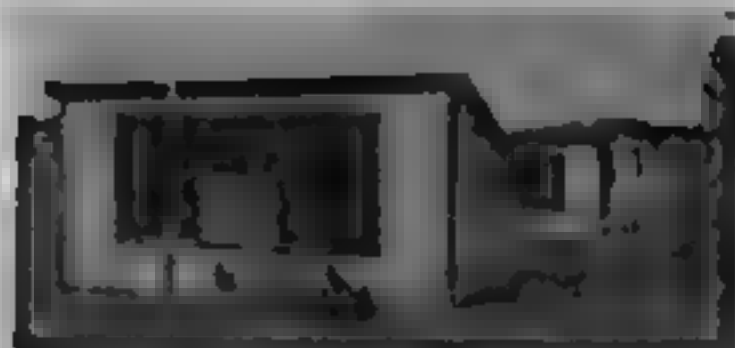
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Table 1.11. *Deletion Mutation* T9000-001 [12]

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: a control group and an experimental group. The control group received a standard training program, while the experimental group received a modified training program. The results of the training program were compared between the two groups.

442

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Meeting at Fair

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Group From Fair

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Conservation Recipes

The following recipes look third using soft water if possible. Boil rise in the conservation content. three or four hours, adding onion in

| | |
|---------------------|----------------------|
| 1. Boiled Potatoes | 2. Boiled Potatoes |
| 3. Boiled Potatoes | 4. Boiled Potatoes |
| 5. Boiled Potatoes | 6. Boiled Potatoes |
| 7. Boiled Potatoes | 8. Boiled Potatoes |
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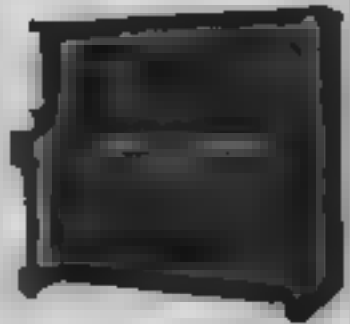
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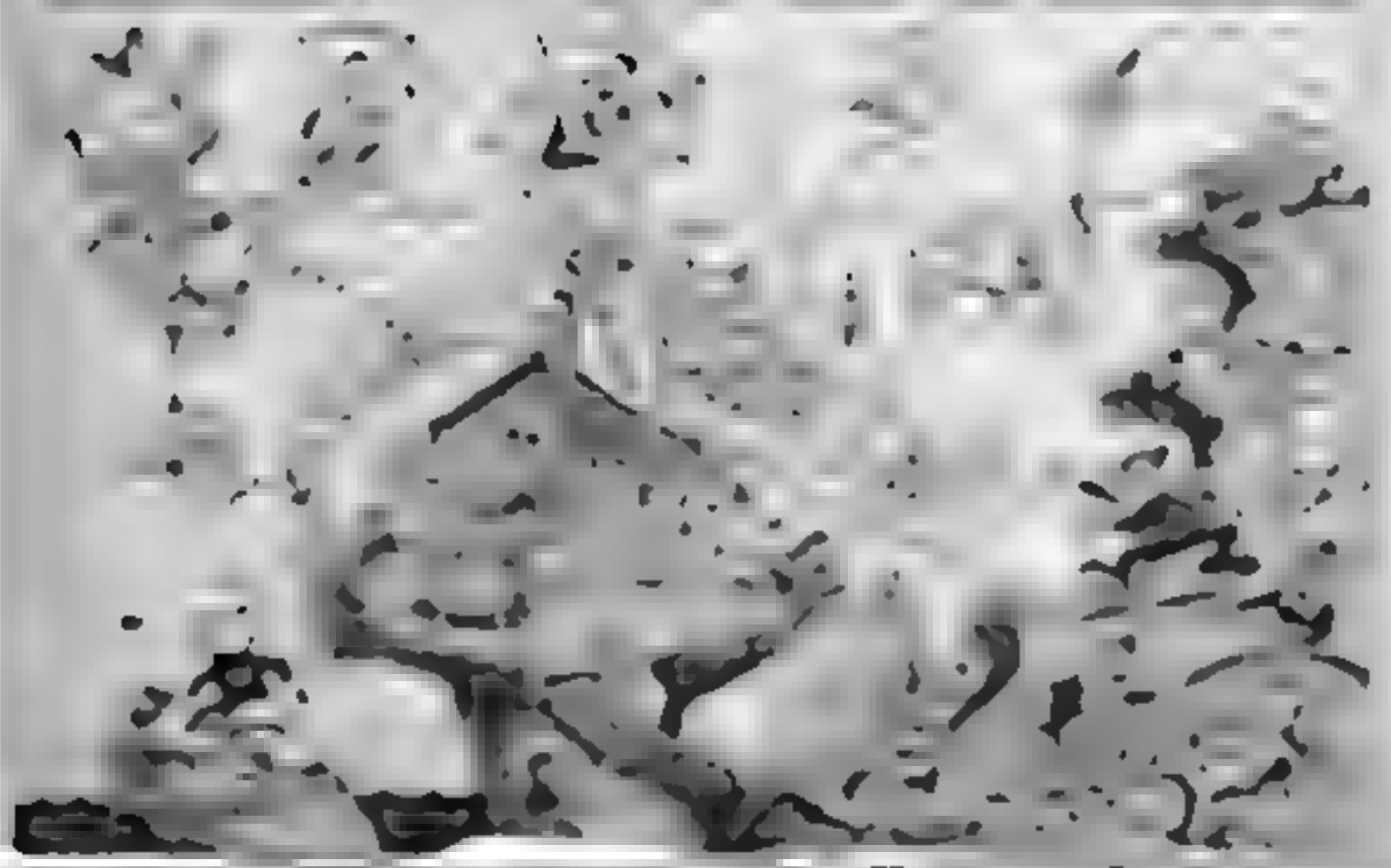
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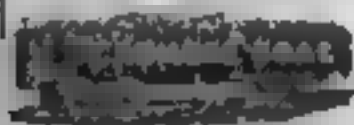
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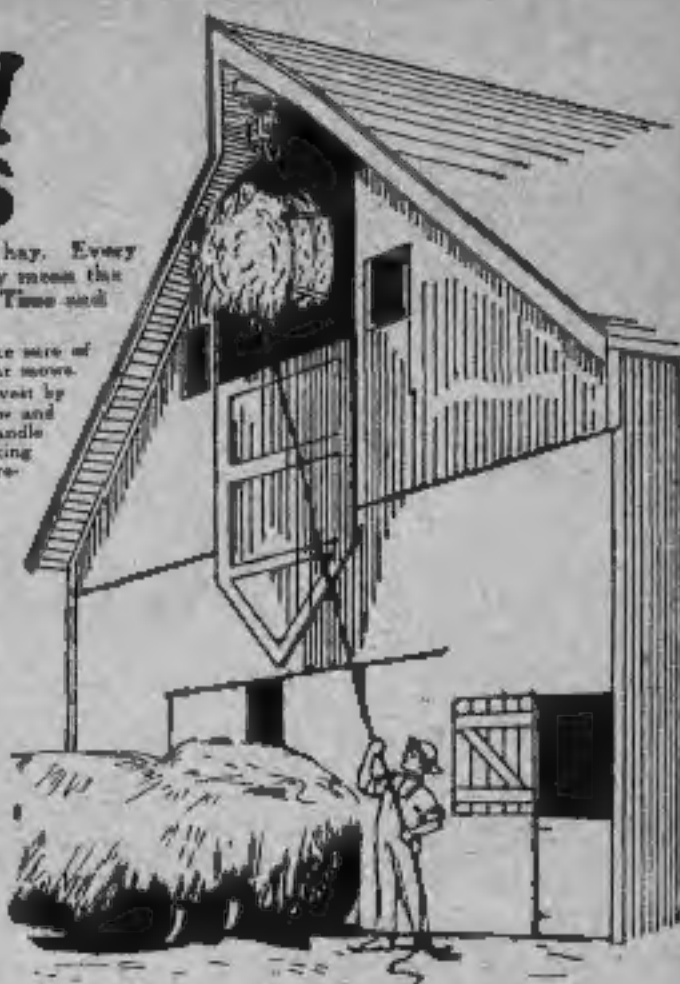
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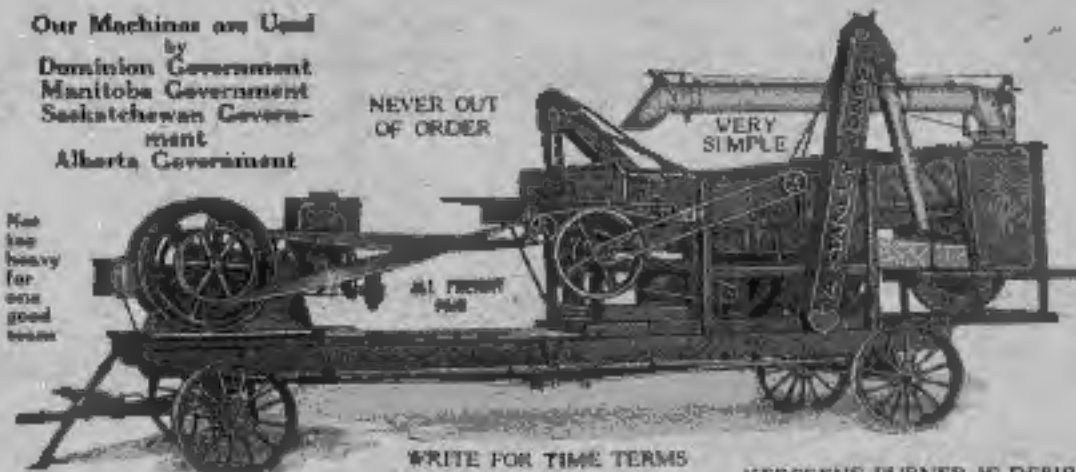
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